

Peter W. Spaeth

Personal Information

Born: Cincinnati, USA

Address

Department of Mathematics
Penn State University
109 McAllister Building
University Park, PA 16802
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Education

- Ph.D. in Mathematics, University of Wisconsin - Madison, 2006
Dissertation: *Floer homology and engulfable Hamiltonian diffeomorphisms*
Advisor: Yong-Geun Oh
- B.S. in Mathematics, Penn State University - University Park, 1999

Research Interests

- Contact and symplectic geometry, Hamiltonian dynamical systems, mathematical physics

Positions Held

- Lecturer in Mathematics, Penn State University, 2006 - present
- Visiting Scholar, Korea Institute for Advanced Study, summer 2002 & 2003
- Teaching Assistant, University of Wisconsin - Madison

Papers

- *Length minimizing paths in the Hamiltonian diffeomorphism group*, to appear, J. Symplectic Geom.

Recent Talks

- *Length minimizing paths in the group $\text{Ham}(M, \omega)$* , Topology Seminar, PSU, 05/2008
- *The group of contact homeomorphisms*, Symplectic Topology Seminar, PSU, 02/2008
- *An Introduction to C^0 -Symplectic Topology I, II, III*, Symplectic Geometry Seminar, PSU, 10/2007
- *Geometry of the Hamiltonian Diffeomorphism Group, I, II, III*, Topology Seminar, PSU, 02/2007
- *λ -homotopy and Floer theory* Univ. of Toronto Symplectic Seminar, 12/2006
- *Floer homology and engulfable Hamiltonian diffeomorphisms I, II* Math. Physics seminar, PSU, 09/2006
- *Floer homology and engulfable Hamiltonian diffeomorphisms*, Dissertation, 05/2006
- Invited Lecture, NSF East Asia Summer Institutes 2004 Orientation Meeting, Arlington, VA, 04/2004

Awards

- NSF VIGRE Fellowship, calendar year 2002

- NSF East Asia Summer Institutes 2003
- Original Project in Geometry, Math. Adv. Study Semesters, PSU 1997

Funded Conferences

- AMS-SIAM Joint Research Conference, Park City, UT, 07/2007
- Dusafest, Stony Brook, NY, 10/2006
- Workshop on Symplectic Field Theory, Leipzig, Germany, 05/2005
- SMS-NATO Advanced Summer Institute Summer School on Morse Theoretic Methods in Non-linear Analysis and in Symplectic Topology, Université de Montréal, 07/2004
- Mathematical Aspects of String Theory, Northwestern University, 05/2004
- The Clifford Lectures, Tulane University, 03/2004
- The Geometry of Lagrangian Submanifolds, IPAM, Los Angeles, CA, 04/2003
- KIAS Workshop on Symplectic Geometry and Dynamical Systems, Seoul, Korea, 06/2003